

FEBRUARY 15-17, 2023

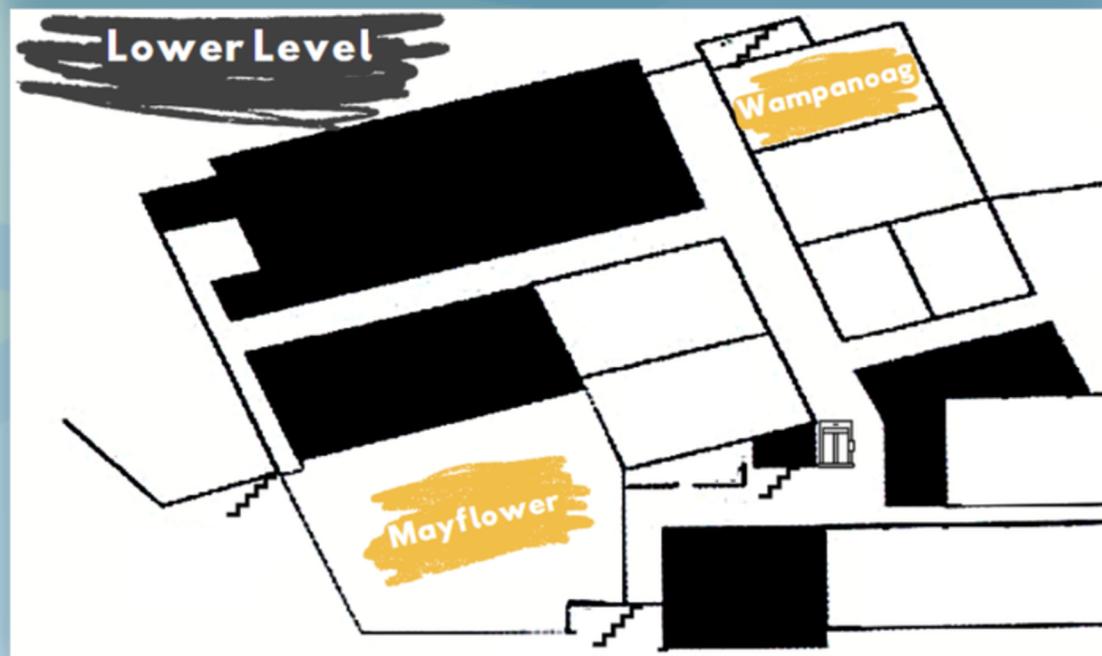
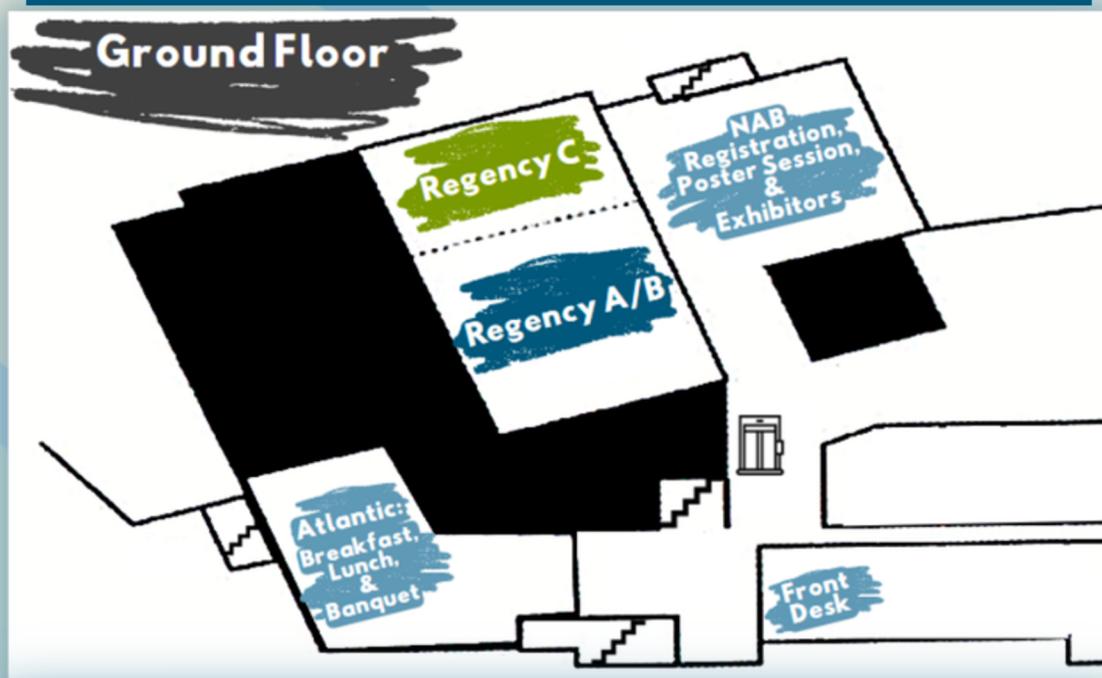
**NORTHEAST
AQUATIC
BIOLOGISTS
CONFERENCE**



PLYMOUTH, MA



HOTEL 1620



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WEDNESDAY, FEBRUARY 15, 2023

Pre-Conference Workshop
Mayflower (lower level)

9:00

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12:00

CPR, AED, and First Aid with an Emphasis on Accidents in Remote Situations
(attendees must register in advance)

12:00

Break

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WEDNESDAY, FEBRUARY 15, 2023

	Restoration Regency A/B moderator: Mary Becker, CT DEEP	Wetland Assessment Regency C moderator: Suzanne Flint, MassDEP	Emerging Contaminants & Toxins Wampanoag (lower level) moderator: Richard Carey, MassDEP
1:00	<u>Ecological Restoration Opportunities on a Former Golf Course</u> Kate Bentsen, MA DER	<u>Vermont Wetland Metric Evaluation Relative to Ecological Conditions</u> Ben Jessup, Tetra Tech	<u>Surface Water Quality Data to Support Implementation of Revised Freshwater Copper Ambient Water Quality Criteria in Massachusetts Using the Biotic Ligand Model (BLM)</u> Caitlin Riddick, MassDEP
1:30	<u>Water Quality Improvements Following Small Dam Removal on an Atlantic Salmon (Salmo salar) Stream in Western Maine</u> Emily Zimmermann, ME DEP	<u>Incorporating Plant Community Metrics into a Maine's Multi-Indicator Wetland Assessment Framework</u> Douglas Sutor, ME DEP	<u>Freshwater Mussels as Biomonitors of Recovery Following a Superfund Cleanup of a Large River</u> Sean Madden, NYS DEC
2:00	<u>Recovery of Benthic Macroinvertebrates Following Small Dam Removals</u> Katherine Abbott, UMass/MA Coop Unit	<u>Wetlands in New England: Considerations for Biological Assessments and Wetland Regulations in the Face of a Changing Climate Landscape</u> Panel Facilitated by Jordan Bishop, NEIWPC	<u>Bioaccumulation of Perfluorooctane sulfonate (PFOS) in Stocked Brook Trout</u> Tom Danielson, ME DEP
2:30	Break		
	Macroinvertebrates Regency A/B moderator: Corey Conville, US EPA	Lake Assessment Regency C moderator: James Meek, MassDEP	Use of Data, Data Tools, & Crunching Wampanoag (lower level) moderator: Jane Sawyers, RIDEM
3:00	<u>Charismatic Macrofauna: Biomonitoring and the Freshwater Biodiversity Crisis</u> Michelle Graziosi, VT DEC	<u>The Evolution of Lake Habitat Assessments: Finding the Missing Link</u> Jeremy Deeds, ME DEP	<u>Using Open Source Tools to Develop a Monitoring Data Management and Visualization System</u> Mary Becker, CT DEEP
3:30	<u>Northeastern USA Status Assessment of Stonefly (Insecta, Plecoptera) Regional Species of Greatest Conservation Need</u> Edward DeWalt, University of Illinois	<u>Biological Index Development: A "Three-legged Assessment Stool" for Lakes within the Lake Champlain Basin</u> Benjamin Block, Tetra Tech	<u>Use of External Water Quality Data in Massachusetts for Clean Water Act Use Attainment Assessments</u> Robert Smith, MassDEP
4:00	<u>Range-Wide Ecology, Conservation, and Research Needs for Yellow Lampmussel</u> Stefanie Farrington, UMass Amherst, U.S. Fish & Wildlife Service	<u>A Benthic Macroinvertebrate Index of Biotic Integrity (IBI) for New York State Lakes</u> Alene Onion, NYS DEC	<u>Introducing MassWater: A New Open-Source Data Tool for Water Quality Monitoring Groups</u> Jill Carr, Massachusetts Bays National Estuary Partnership Ben Wetherill, ACASAK Aquatic Monitoring Consulting
5:00	Social Event: Anna's Harborside Grille 145 Water St, Plymouth, MA, 02360		

THURSDAY, FEBRUARY 16, 2023

8:00	Breakfast: <i>Atlantic</i>	
9:00	<u>Words of Welcome: Regency A/B</u> Maryann Dugan, NEIWPCC Paul Hogan, NEIWPCC Massachusetts Commissioner Dahlia Tympanick, MassDEP	
9:15	<u>Plenary I: Regency A/B</u> <u>Environmental Justice</u> <u>Deneen Simpson, MassDEP</u>	
10:15	Break	
10:45	<u>Plenary II: Regency A/B</u> <u>The US Clean Water Act at Menopause: Moving Beyond Treating Lake Hot Flashes to Saving the Best of What's Left</u> <u>Kellie Merrell, VT DEC</u>	
12:00	Lunch <i>Atlantic</i>	
	Aquatic Biodiversity & Climate Change <i>Regency A/B</i> moderator: Jeremy Deeds, ME DEP	How Legacies Inform the Present <i>Regency C</i> moderator: Kellie Merrell, VT DEC
1:15	<u>Modeling Aquatic Biodiversity in New England Streams to Support Management Decisions that Consider Climate Change</u> <u>Jennifer Rogers, UMass Amherst</u>	<u>Imprints of Colonial Agriculture: The Role of Legacies in Stream Ecosystems</u> <u>Ariana Dionisio, UConn</u>
1:45	<u>Integrating Climate Change into Stream Biomonitoring Programs</u> <u>Jen Stamp, Tetra Tech</u>	<u>How Watershed Land Use Legacies Can Inform Water Quality Management</u> <u>Ashley Helton, UConn</u>
2:15	Break	

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THURSDAY, FEBRUARY 16, 2023

	Fish Regency A/B moderator: Richard Friesner, NEIWPCC	River & Stream Monitoring Regency C moderator: Kellie Merrell, VT DEC	HABs & Cyanobacteria Wampanoag (lower level) moderator: Jane Sawyers, RIDEM
2:30	<u>Results of the 2022 Wachusett Reservoir Roving Creel Survey.</u> Max Nyquist, MA DCR	<u>Detecting Changes in Nutrient and Sediment Concentrations and Loads in Small-Scale Streams within Great Lakes Priority Watersheds</u> Andrew Kowalczk, USGS	<u>Survey Study of Presence of Cyanotoxins in Wadeable Streams in New York State, US (2017-2021)</u> Keleigh Reynolds, NYS DEC
3:00	<u>River Herring Spawning and Nursery Habitat Assessment in Coastal Massachusetts Watersheds</u> Bradford Chase, MA DMF	<u>Utilizing Unmanned Aerial Vehicles (UAVs) with Thermal Sensors as a Rapid Assessment Tool to Identify and Prioritize Sites for Habitat and Water Quality Protection, Enhancement, and Monitoring</u> Sal DeCarli, EA Engineering, Science, & Technology, Inc., PBC	<u>Small and Mighty: Monitoring Strategies for Picocyanobacterial Communities in Diverse Aquatic Ecosystems</u> Nancy Leland, Lim-Tex Research Kimberley Pearson
3:30	<u>Predicting Out-Migration Loss of Juvenile Herring Using a Process-Based Hydrologic Model to Inform Watershed Management Decisions</u> Katherine King, UConn	<u>Winter Riverine Monitoring in New Hampshire</u> Kirsten Hugger, NH DES Ted Walsh, NH DES	<u>Advances in Phytoplankton Methods at the DEP</u> John Kaurich, NYC DEP
4:00	<u>Twenty-One Years on the Lower Kennebec River, Maine 2002-2021: Fish Assemblage Composition and Responses to Diadromous Fish Management</u> Chris Yoder, Midwest Biodiversity Institute	<u>A Water-Resource and Road-Condition Monitoring Study of Alternative Treatments for Road Deicing</u> Natasha Scavotto, USGS	<u>Passive Harvesting of Cyanobacteria to Restore White Pond's Water Quality and Prevent Health Risks, Concord, Massachusetts</u> Jonathan Higgins, Higgins Environmental Associates, Inc.
4:30	Exhibitor & Poster Session <i>Exhibitor Hall</i>		
6:00	Banquet & Awards <i>Atlantic</i>		

POSTER PRESENTATIONS

Ryan O'Donnell & Gabriel Chevalier, Connecticut River Conservancy	<u>Volunteer Microplastics Monitoring in the Connecticut River Watershed</u>
Gina Groseclose, USGS	<u>USGS Coastal Acidification Monitoring in Long Island Sound Tributaries and Embayments</u>
Amy Villamagna & Jacob Gallaher, Plymouth State University	<u>Reconnecting with the Floodplain: Stage Zero Restoration in the Zealand River (WMNF)</u>
Ansel Aarrestad, CT DEEP	<u>Ice In-Ice Out: Using trail Cameras to Monitor Ice Cover Changes Over Time in Connecticut Lakes</u>
Michelle Graziosi, VT DEC	<u>Macroinvertebrate Community Alteration Occurs at Chloride Levels Lower than the Current Standard</u>
Eleanor Yeomans, Neponset River Watershed Association	<u>Water Quality of an Urban Watershed in Drought Determined Through Community Science in the Greater Boston Area</u>
Casey Beaudoin & Rachel Sheppard, USGS	<u>U.S. Geological Survey Water Quality Monitoring in the Lower Merrimack River Watershed</u>
Deana Hutcheson, Merrimack College	<u>Microplastic Density of Filtered Water vs. Tap Water</u>
Victor Privetera, Merrimack College	<u>Quantifying Microplastics in a Small River Watershed</u>
Melissa Czarnowski, CT DEEP	<u>Using Continuous Monitoring Data to Manage the Wild and Scenic Farmington River</u>
Alexa Hershberger, UMass Amherst	<u>Advancing the Conservation of Freshwater Mussels in the Eastern United States</u>
Walter Tokarz, CT DEEP	<u>Connecticut Cyanobacteria Monitoring Program 2015-2022</u>
Callista MacPherson, Massachusetts Cooperative Fish & Wildlife Research Unit, UMass Amherst	<u>Examining Fish Assemblage Response to Dam Removal</u>
Kellie Merrell, NALMS	<u>Resurrecting Clean Lakes Funding for US Lakes</u>
Theresa Armijo & Paul Solis, USGS	<u>Coastal Water Quality and Hydrologic Installations in Connecticut</u>
Alison Watts, University of New Hampshire	<u>Adding eDNA to Coastal Monitoring Programs: the Good, the Bad, and the Lessons We're Learning</u>

THURSDAY, FEBRUARY 16, 2023

FRIDAY, FEBRUARY 17, 2023

8:00 Breakfast: <i>Atlantic</i>			
	Decision Support Tools Regency A/B moderator: Heather Pembrook, VT DEC	Coastal Monitoring Regency C moderator: Suzanne Flint, MassDEP	Policy & Management Wampanoag (lower level) moderator: Kellie Merrell, VT DEC
9:00	<u>An Integrated Watershed Management and Decision Support Framework for Balancing Natural and Human Habitat and Biointegrity Nutrient Outcomes Along a Biocondition Gradient</u> Paul Stacey, Footprints in the Water, LLC	<u>Eelgrass (<i>Zostera marina</i>) Continues to Decline along Coastal Massachusetts</u> David Wong, MassDEP	<u>Monitoring for What is Required or Monitoring for What is Needed to Protect and Restore Our Waters: Some Findings from a State Program Review Process 2002-2022</u> Chris Yoder, Midwest Biodiversity Institute
9:30	<u>Creating an Algal Bloom Response Plan from Water Quality Monitoring Data in a Drinking Water Reservoir</u> Hannah Lee, MWRA	<u>Embayment Monitoring to Support Nutrient Management Activities in Connecticut for the Long Island Sound</u> Brittney Izbicki, USGS	<u>Implementation of Revised Recreational Bacteria Criteria in Massachusetts for Clean Water Act Use Attainment Assessments</u> Jennifer Sheppard, MassDEP
10:00	(cancellation)	<u>Connecticut Department of Energy and Environmental Protection Long Island Sound Ambient Water Quality Monitoring Program: Overview and Analysis of Program Data</u> Matt Lyman, CT DEEP	<u>Clean Water for Clean Energy: 401 Water Quality Certification for Offshore Wind Farm in Massachusetts</u> David Wong, MassDEP
10:30 Break			
	Invasive Species Regency A/B moderator: Katie DeGoosh-DiMarzio, RIDEM	Hydrologic Alteration Regency C moderator: Adam Pepi, ME DEP	Roundtable Session Mayflower (lower level) moderator: Maryann Dugan, NEIWPC
11:00	<u>Zebra Mussels: Have They Successfully Invaded the NYC Water Supply after 30 Years?</u> Michael Spada, NYC DEP	<u>Winter Lake Drawdowns: Prevalence, Hydrologic Characteristics, and Ability to Meet Management Guidelines</u> Allison Roy, USGS, Massachusetts Coop Unit, University of Massachusetts Amherst	<u>Roundtable Contaminants of Emerging Concern & Harmful Algal Blooms</u>
11:30	<u>Hydrilla Invades the Connecticut River</u> Summer Stebbins, Connecticut Agricultural Experiment Station	<u>Hydrological Evaluation of Tidal Restrictions at Rumney Marsh</u> Ed Reiner, USEPA	

Thank you for attending NAB 2023! See you next year in Vermont!